

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/10/00
Date Received: 05/04/00
Project: Metro Self Monitor, M64098
Date Extracted: 05/08/00
Date Analyzed: 05/08/00

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M64098 005024-01	0.34	0.24	0.29	0.15
Method Blank	<0.05	<0.05	<0.05	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/10/00

Date Received: 05/04/00

Project: Metro Self Monitor, M64098

QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 005024-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.34	0.34	0	0-20
Copper	mg/L (ppm)	0.24	0.25	4	0-20
Nickel	mg/L (ppm)	0.29	0.32	7	0-20
Zinc	mg/L (ppm)	0.15	0.06	vo	0-20

Laboratory Code: 005024-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	5	0.34	100	80-120
Copper	mg/L (ppm)	5	0.24	104	80-120
Nickel	mg/L (ppm)	10	0.29	97	80-120
Zinc	mg/L (ppm)	5	0.15	97	80-120

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	98	94	80-120	4
Copper	mg/L (ppm)	5	101	97	80-120	4
Nickel	mg/L (ppm)	10	100	97	80-120	3
Zinc	mg/L (ppm)	5	101	97	80-120	4

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

vo - The value reported fell outside the control limits established for this analyte.

5/4/00

C.S.

A O I

FRIEDMAN & BRUYA, INC.
3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282

SAMPLE CHAIN OF CUSTODY

Send Report To:

Company ALASKAN Copper Works Contact GERALD A. Thompson
Address 625 S. Hanford ST
City, State, Zip Seattle WA 98134
Phone # 206-382-8379 FAX # 206-382-4309 Date 5-4-00

SITE NO.

PROJECT NAME

PURCHASE ORDER #

7258	metro Self monitor	m64098
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SAMPLERS (signature)

PROJECT LOCATION

3200 6th Ave S.

REMARKS

SAMPLE DISPOSAL INFORMATION

	<input type="checkbox"/> Dispose after 30 days <input checked="" type="checkbox"/> Return Samples <input type="checkbox"/> Call for Instructions
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[illegible]

SIGNATURE

PRINT NAME

COMPANY

Date _____

Time

Relinquished by:	GERARD A. Thompson	ACW	5/4/00	1:26pm
Received by:	Tony Elias	FB:	5/4/00	1:26
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

May 10, 2000

DUPLICATE COPY

INVOICE #00ACU0510-2

Accounts Payable
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

RE: Project Metro Self Monitor, M64098 - Results of testing requested by Gerry Thompson for material submitted on May 4, 2000.

1 sample analyzed for Total Chromium,
Copper, Nickel, and Zinc
by Method 6010 @ \$80 per sample

\$ 80.00

Amount Due

\$ 80.00

FEDERAL TAX ID (b) (6)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
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3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

May 10, 2000

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

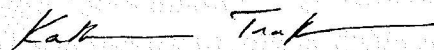
Dear Mr. Thompson:

Included are the results from the testing of material submitted on May 4, 2000 from your Metro Self Monitor, M64098 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kate Trafton
Project Manager

Enclosures
ACU0510R.DOC